

Met	Asp	Trp	Pro	His	Asn	Leu	Leu	Phe	Leu	Leu	Thr	Ile	Ser	Ile
1					5				10					15
Phe	Leu	Gly	Leu	Gly	Gln	Pro	Arg	Ser	Pro	Lys	Ser	Lys	Arg	Lys
				20					25					30
Gly	Gln	Gly	Arg	Pro	Gly	Pro	Leu	Ala	Pro	Gly	Pro	His	Gln	Val
				35					40					45
Pro	Leu	Asp	Leu	Val	Ser	Arg	Met	Lys	Pro	Tyr	Ala	Arg	Met	Glu
				50					55					60
Glu	Tyr	Glu	Arg	Asn	Ile	Glu	Glu	Met	Val	Ala	Gln	Leu	Arg	Asn
				65					70					75
Ser	Ser	Glu	Leu	Ala	Gln	Arg	Lys	Cys	Glu	Val	Asn	Leu	Gln	Leu
				80					85					90
Trp	Met	Ser	Asn	Lys	Arg	Ser	Leu	Ser	Pro	Trp	Gly	Tyr	Ser	Ile
				95					100					105
Asn	His	Asp	Pro	Ser	Arg	Ile	Pro	Val	Asp	Leu	Pro	Glu	Ala	Arg
				110					115					120
Cys	Leu	Cys	Leu	Gly	Cys	Val	Asn	Pro	Phe	Thr	Met	Gln	Glu	Asp
				125					130					135
Arg	Ser	Met	Val	Ser	Val	Pro	Val	Phe	Ser	Gln	Val	Pro	Val	Arg
				140					145					150
Arg	Arg	Leu	Cys	Pro	Pro	Pro	Pro	Arg	Thr	Gly	Pro	Cys	Arg	Gln
				155					160					165
Arg	Ala	Val	Met	Glu	Thr	Ile	Ala	Val	Gly	Cys	Thr	Cys	Ile	Phe
				170					175					180

FIG. 1

aggcgggcag cagctgcagg ctgacctgc agcttggcgg aatggactgg 50  
cctcacaacc tgctgtttct tcttaccatt tccatcttcc tggggctggg 100  
ccagcccagg agccccaaaa gcaagaggaa ggggcaaggg cggcctgggc 150  
ccctggcccc tggccctcac caggtgccac tggacctggt gtcacggatg 200  
aaaccgtatg cccgcatgga ggagtatgag aggaacatcg aggagatggt 250  
ggcccagctg aggaacagct cagagctggc ccagagaaag tgtgaggtca 300  
acttgcagct gtggatgtcc aacaagagga gcctgtctcc ctggggctac 350  
agcatcaacc acgaccccag ccgtatcccc gtggacctgc cggaggcacg 400  
gtgcctgtgt ctgggctgtg tgaaccctt caccatgcag gaggaccgca 450  
gcatggtgag cgtgccggtg ttcagccagg ttcctgtgcg ccgccgcctc 500  
tgcccgccac cgccccgcac agggccttgc cgccagcgcg cagtcatgga 550  
gaccatcgct gtgggctgca cctgcatctt ctgaatcacc tggcccagaa 600  
gccaggccag cagcccgaga ccacctcct tgcaccttg tgccaagaaa 650  
ggcctatgaa aagtaaacac tgacttttga aagcaag 687

**FIG. 2**

Met	Thr	Leu	Leu	Pro	Gly	Leu	Leu	Phe	Leu	Thr	Trp	Leu	His	Thr	1	5	10	15
Cys	Leu	Ala	His	His	Asp	Pro	Ser	Leu	Arg	Gly	His	Pro	His	Ser	20	25	30	
His	Gly	Thr	Pro	His	Cys	Tyr	Ser	Ala	Glu	Glu	Leu	Pro	Leu	Gly	35	40	45	
Gln	Ala	Pro	Pro	His	Leu	Leu	Ala	Arg	Gly	Ala	Lys	Trp	Gly	Gln	50	55	60	
Ala	Leu	Pro	Val	Ala	Leu	Val	Ser	Ser	Leu	Glu	Ala	Ala	Ser	His	65	70	75	
Arg	Gly	Arg	His	Glu	Arg	Pro	Ser	Ala	Thr	Thr	Gln	Cys	Pro	Val	80	85	90	
Leu	Arg	Pro	Glu	Glu	Val	Leu	Glu	Ala	Asp	Thr	His	Gln	Arg	Ser	95	100	105	
Ile	Ser	Pro	Trp	Arg	Tyr	Arg	Val	Asp	Thr	Asp	Glu	Asp	Arg	Tyr	110	115	120	
Pro	Gln	Lys	Leu	Ala	Phe	Ala	Glu	Cys	Leu	Cys	Arg	Gly	Cys	Ile	125	130	135	
Asp	Ala	Arg	Thr	Gly	Arg	Glu	Thr	Ala	Ala	Leu	Asn	Ser	Val	Arg	140	145	150	
Leu	Leu	Gln	Ser	Leu	Leu	Val	Leu	Arg	Arg	Arg	Pro	Cys	Ser	Arg	155	160	165	
Asp	Gly	Ser	Gly	Leu	Pro	Thr	Pro	Gly	Ala	Phe	Ala	Phe	His	Thr	170	175	180	
Glu	Phe	Ile	His	Val	Pro	Val	Gly	Cys	Thr	Cys	Val	Leu	Pro	Arg	185	190	195	
Ser	Val														197			

FIG. 3

gccaggtgtg caggccgctc caagcccagc ctgccccgct gccgccacca 50  
 tgacgctcct ccccggcctc ctgtttctga cctggctgca cacatgcctg 100  
 gccaccatg acccctccct cagggggcac cccacagtc acggtacccc 150  
 aactgctac tcggctgagg aactgcccct cggccaggcc cccccacacc 200  
 tgctggctcg aggtgccaaag tgggggcagg ctttgccctgt agccctggtg 250  
 tccagcctgg aggcagcaag ccacaggggg aggcacgaga ggccctcagc 300  
 tacgaccag tgcccgggtgc tgcgcccgga ggaggtggtg gaggcagaca 350  
 cccaccagcg ctccatctca ccctggagat accgtgtgga cacggatgag 400  
 gaccgctatc cacagaagct ggccttcgcc gagtgccctgt gcagaggctg 450  
 tatcgatgca cggacgggcc gcgagacagc tgcgctcaac tccgtgcggc 500  
 tgctccagag cctgctgggtg ctgcgccgcc ggccctgctc ccgcgacggc 550  
 tcggggctcc ccacacctgg ggcctttgcc ttccacaccg agttcatcca 600  
 cgtccccgtc ggctgcacct gcgtgctgcc ccgttcagtg tgaccgccga 650  
 ggccgtgggg cccctagact ggacacgtgt gctccccaga gggcaccccc 700  
 tatttatgtg tatttattgt tatttatatg cctcccccaa cactaccctt 750  
 ggggtctggg cattccccgt gtctggagga cagccccca ctgttctcct 800  
 catctccagc ctcagtagtt gggggtagaa ggagctcagc acctcttcca 850  
 gcccttaaag ctgcagaaaa ggtgtcacac ggctgcctgt accttggctc 900  
 cctgtcctgc tcccggcttc ccttacccta tcaactggcct caggccccgc 950  
 aggctgcctc ttcccaacct ccttgggaagt acccctgttt cttaaacaat 1000  
 tatttaagtg tacgtgtatt attaaactga tgaacacatc cccaaaa 1047

**FIG. 4**

ggcagcaggg accaagagag gcacgcttgc ccttttatga catcagagct 50  
 cctgggttctt gctccttggg actctgggac ttacaccagt ggcacccctg 100  
 gctcnnnnnn nnnnnaattc ggtacgaggc tggggttcag gcgggcagca 150  
 gctgcaggct gaccttgcag cttggcgga tggactggcc tcacaacctg 200  
 ctgtttcttc ttaccatttc catcttctg gggctgggccc agcccaggag 250  
 ccccaaaagc aagaggaagg ggcaagggcg gcctgggccc ctggtccctg 300  
 gccctcacca ggtgccactg gacctggtgt cacggatgaa accgtatgcc 350  
 cgcattggagg agtatgagag gaacatcgag gagatggttg cccagctgag 400  
 gaacagttca gagctggccc agagaaagtg tgaggtcaac ttgcagctgt 450  
 ggatgtccaa caagaggagc ctgtctccct ggggctacag catcaaccac 500  
 gaccccagcc gtatccccgt ggacctccg aggcacggtg cctgtgtctg 550  
 ggcttgtgtg aacccttca ccatgcagga ggaccgcagc atggtgagcg 600  
 tgccggtgtt cagccagggt cctgtgcgcc gccgcctctg cccgccaccg 650  
 cccgcacag ggccttgccg ccagcgcgca gtcattgaga ccatcgctgt 700  
 gggctgcacc tgcattctt gaatcgacct ggcccagaag ccaggccagc 750  
 agcccagagc catcctcctt gcaccttgt gccaaagaag gcctatgaaa 800  
 agtaaact gacttttgaa agcaaaaaa 830

FIG. 5

cacggatgag gaccgctatc cacagaagct ggccttcgcc gagtgctgt 50  
gcagaggctg tatcgatgca cggacgggcc gcgagacagc tgcgctcaac 100  
tccgtgcggc tgctccagag cctgctggtg ctgcgccgcc ggcctgctc 150  
ccgcgacggc tcggggctcc ccacacctgg ggcctttgcc ttccacaccg 200  
agttcatcca cgtccccgtc ggctgcacct 230

**FIG. 6**



59294	1	M	D	W	P	H	N	L	L	F	L	L	T	I	S	I	F	L	G	L	G	Q	P	R	S	P	K	S	K	R	K	G	Q	G	R	P	G	P	L	A	P	G	P	-	-	-	H	Q	V	P	L
62377	1	M	T	L	L	P	G	L	L	F	L	T	W	L	H	T	C	L	A	H	D	P	-	S	L	R	G	H	P	H	S	H	G	T	P	H	C	Y	S	A	E	E	L	P	L	G	Q	A	P	P	
59294	48	D	L	V	S	R	M	K	P	Y	A	R	M	-	-	E	E	Y	E	R	N	I	E	E	M	V	A	Q	L	R	N	S	S	E	L	A	Q	R	K	C	E	V	-	-	-	N	L	Q	L	W	
62377	50	H	L	A	R	G	A	K	W	G	Q	A	L	P	V	A	L	V	S	S	L	E	A	A	S	H	R	G	R	H	E	R	P	S	A	T	T	Q	C	P	V	L	R	P	E	E	V	L	E	A	
59294	92	M	S	N	K	R	S	L	S	P	W	G	Y	S	I	N	H	D	P	S	R	I	P	V	D	L	P	E	A	R	C	L	C	L	G	C	V	N	P	F	T	M	Q	E	D	R	S	M	V	S	
62377	100	D	T	H	Q	R	S	I	S	P	W	R	Y	R	V	D	T	D	E	D	R	Y	P	Q	K	L	A	F	A	E	C	L	C	R	G	C	I	D	A	R	T	G	R	E	T	A	A	L	N	S	
59294	142	P	V	F	-	S	Q	V	P	V	R	R	R	L	C	P	P	P	-	-	-	P	R	T	G	P	C	R	Q	R	A	V	M	E	T	I	A	V	G	C	T	C	I	F							
62377	150	R	L	L	Q	S	L	L	V	L	R	R	R	P	C	S	R	D	G	S	G	L	P	T	P	G	A	F	A	F	H	T	E	F	I	H	V	P	V	G	C	T	C	V	L	P	R	S			

FIG. 7B



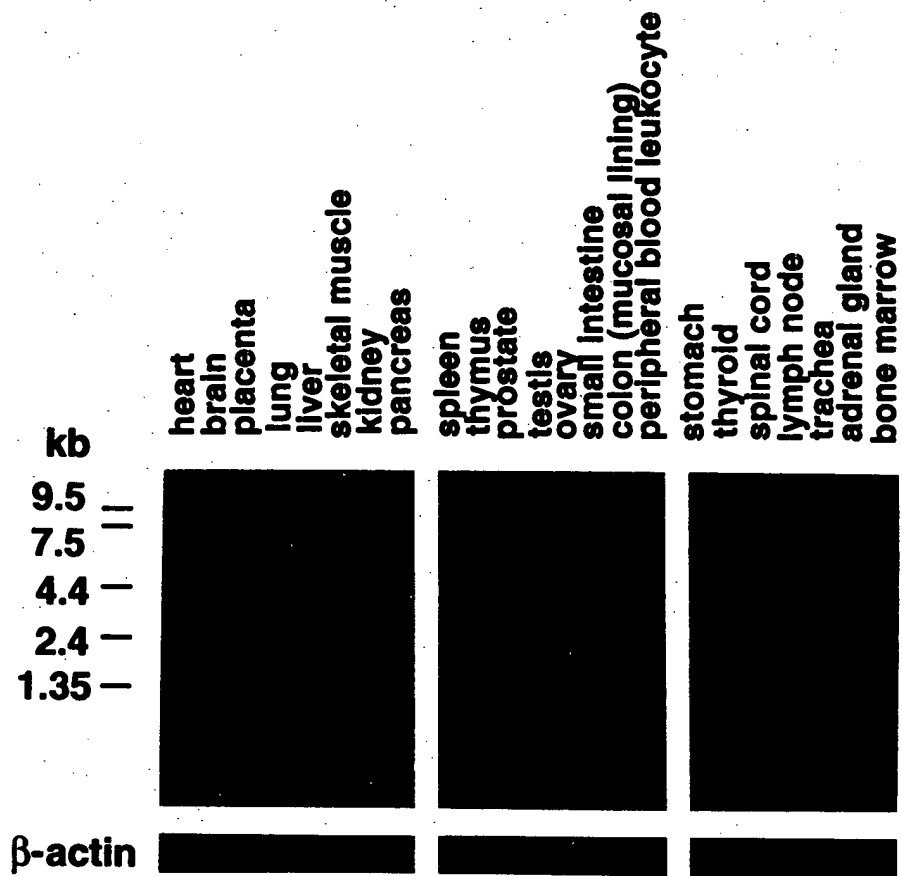
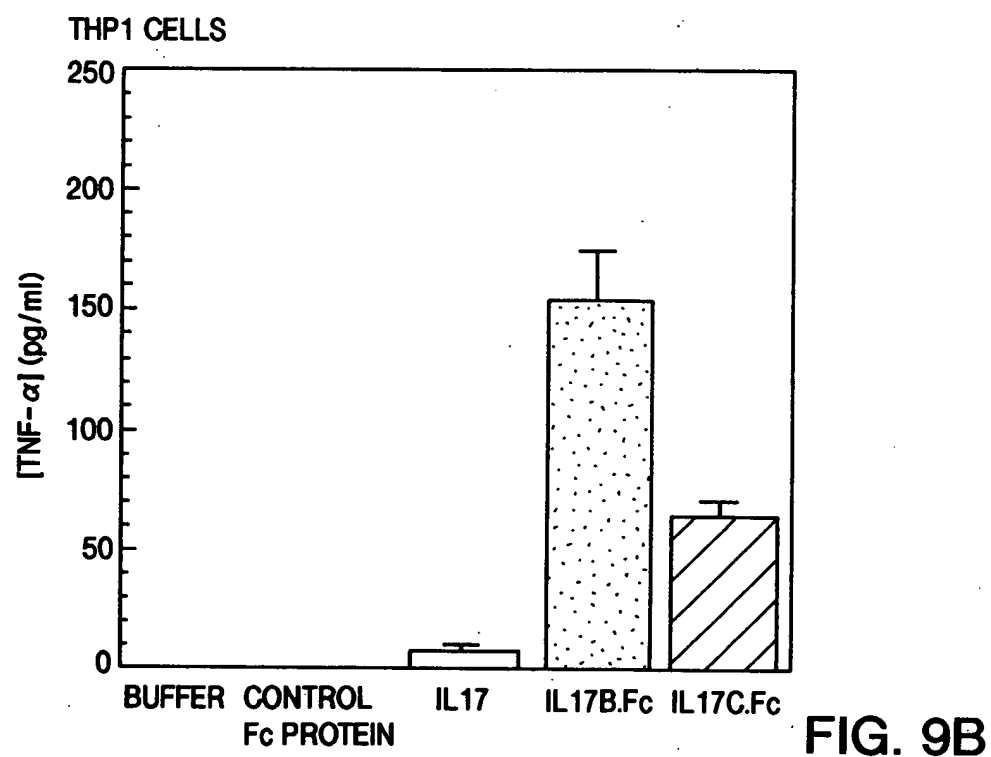
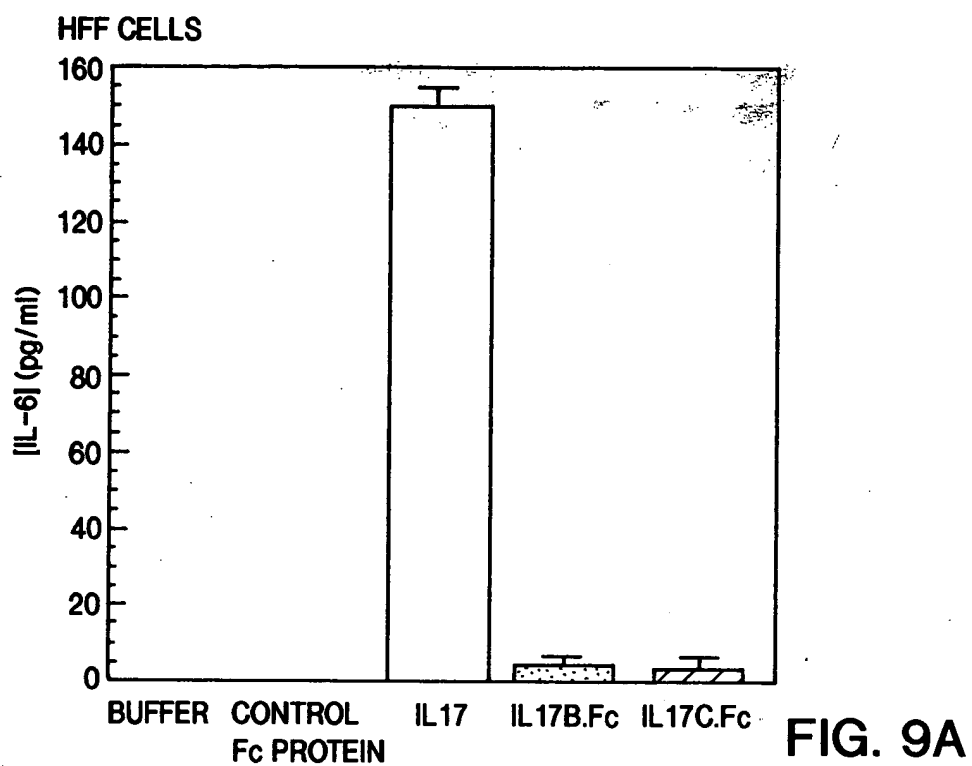


FIG. 8



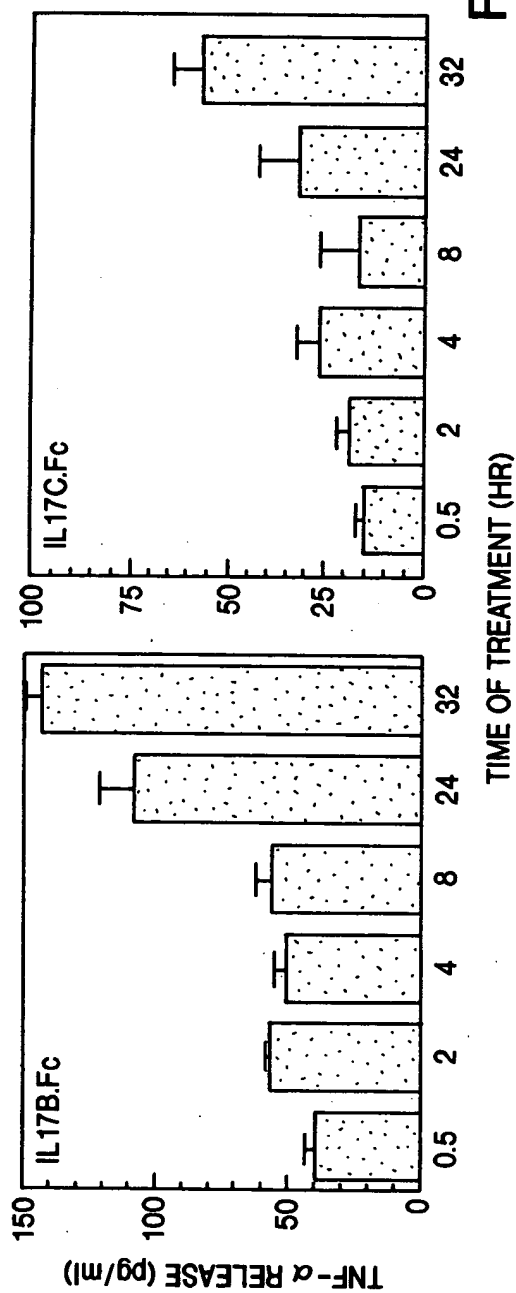


FIG. 10A

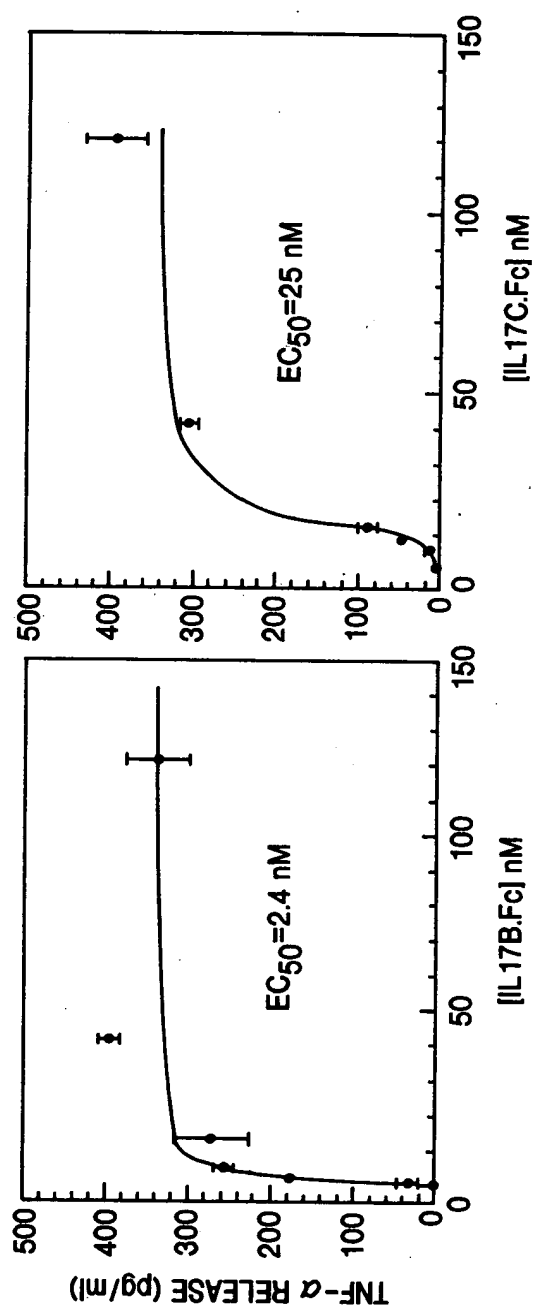


FIG. 10B

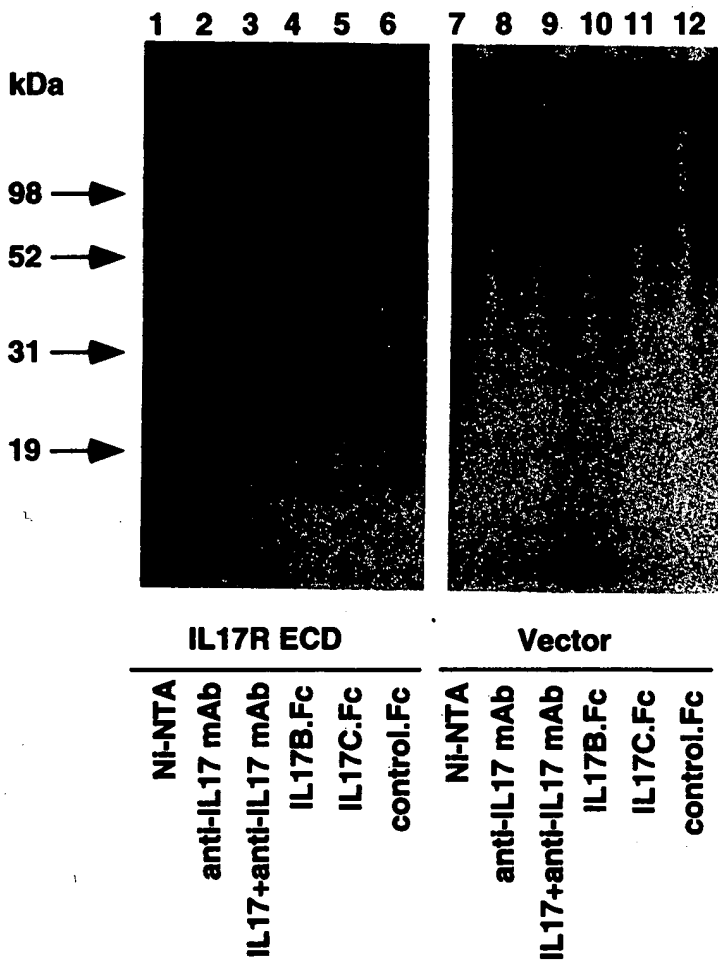


FIG. 11A

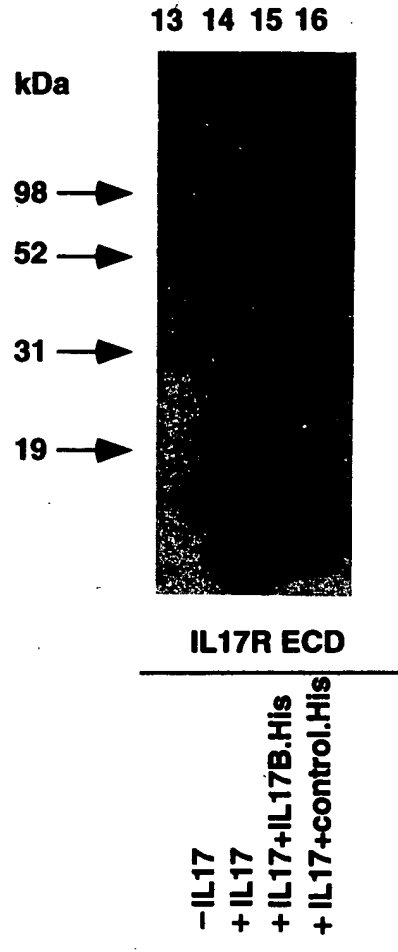
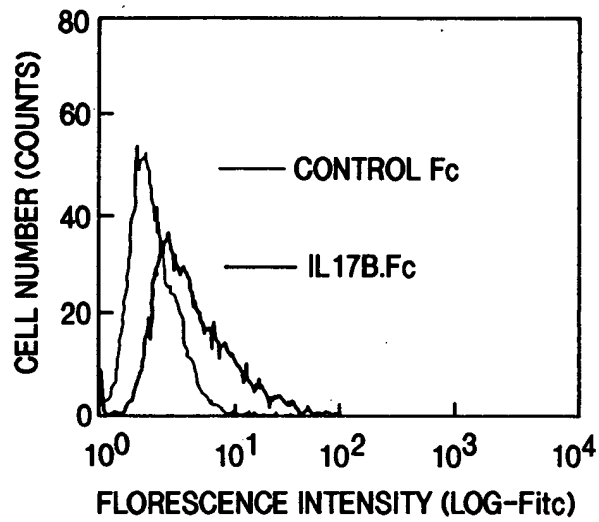
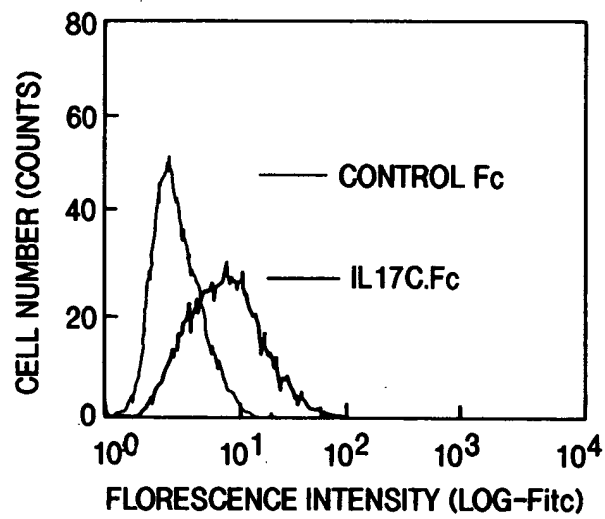


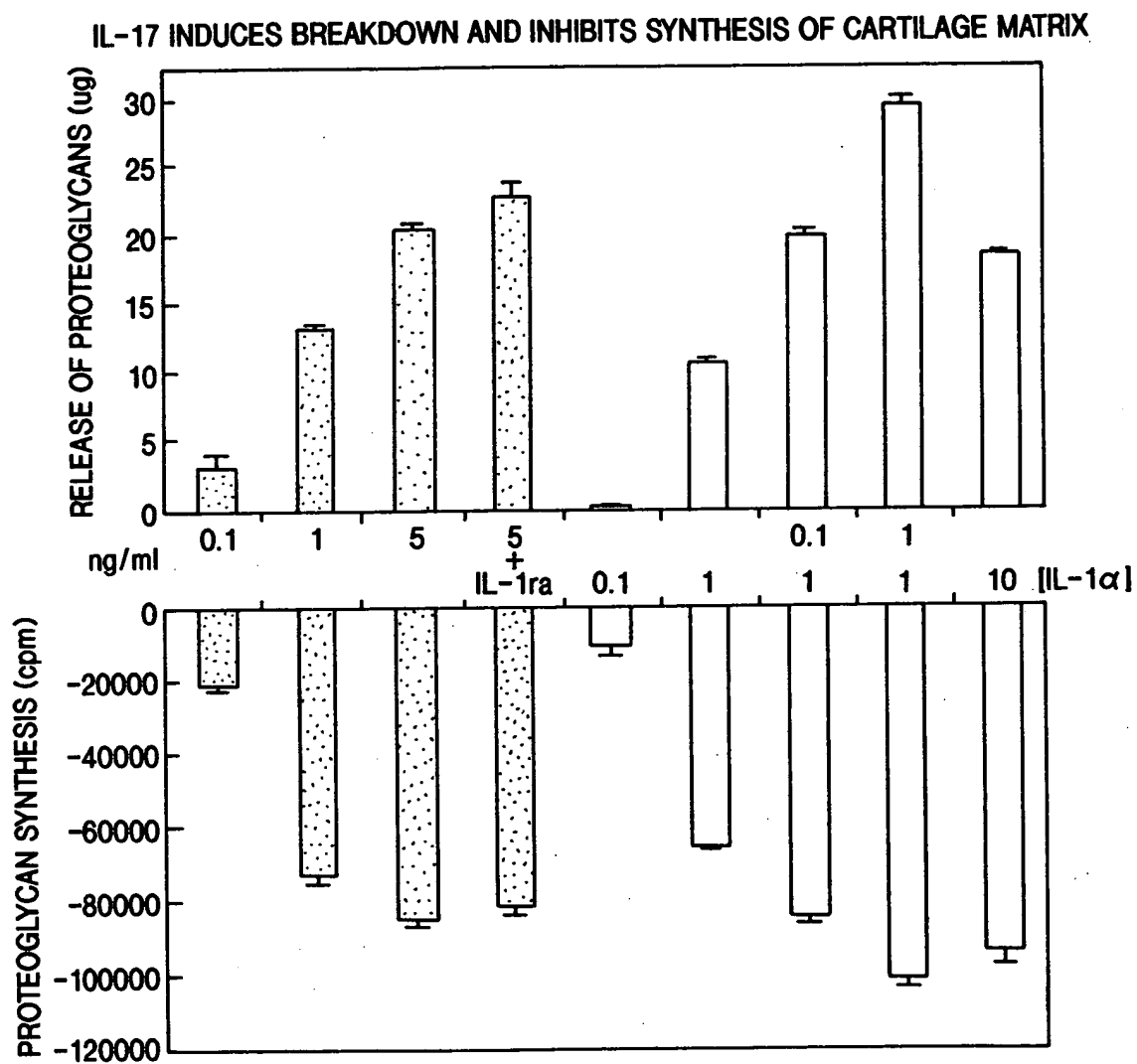
FIG. 11B



**FIG. 12A**



**FIG. 12B**



**FIG. 13**

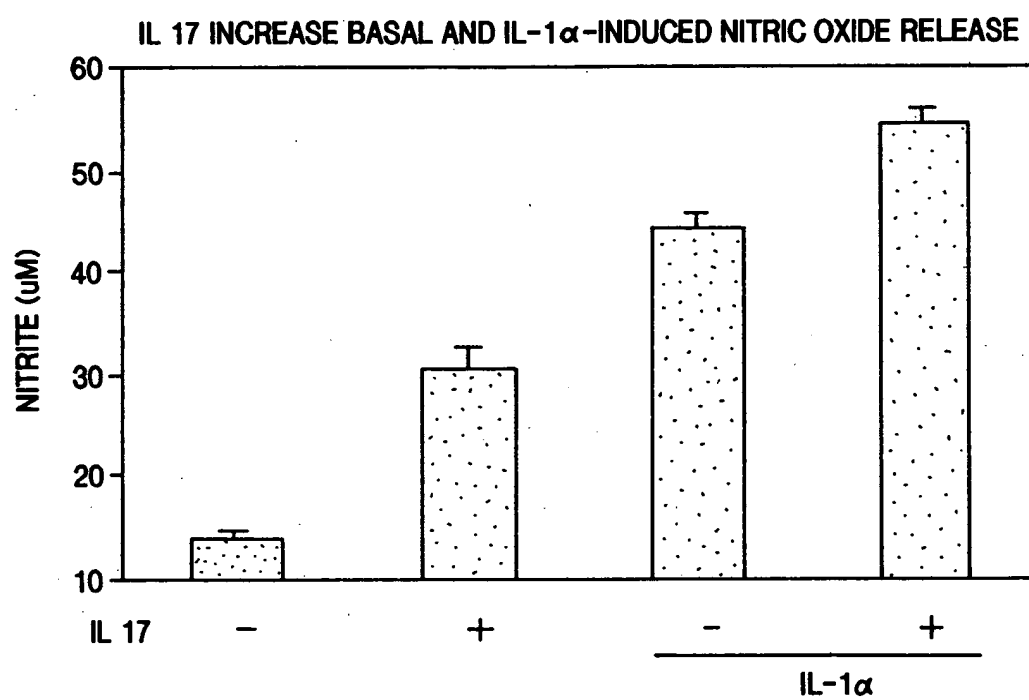


FIG. 14

INHIBITION OF NITRIC OXIDE RELEASE DOES NOT BLOCK THE DETRIMENTAL  
EFFECTS OF IL 17 ON MATRIX BREAKDOWN OR SYNTHESIS

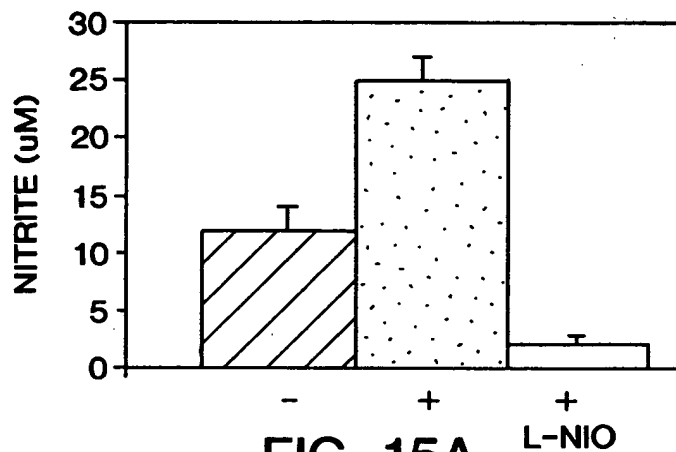


FIG. 15A

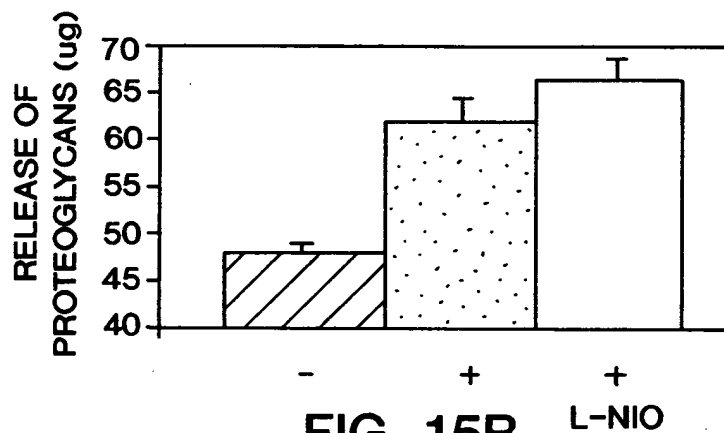


FIG. 15B

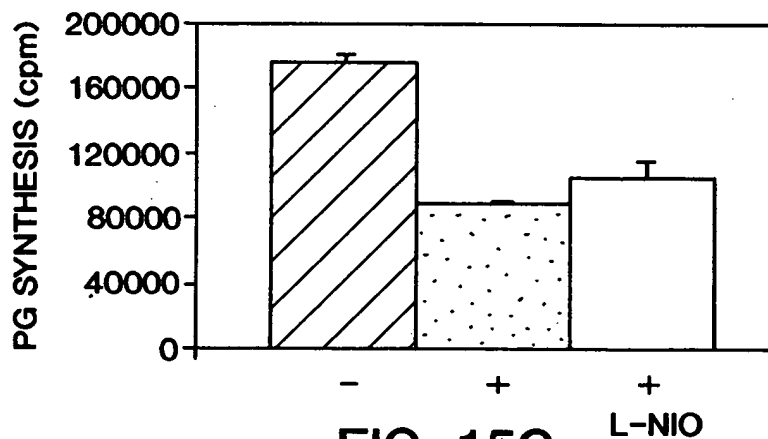
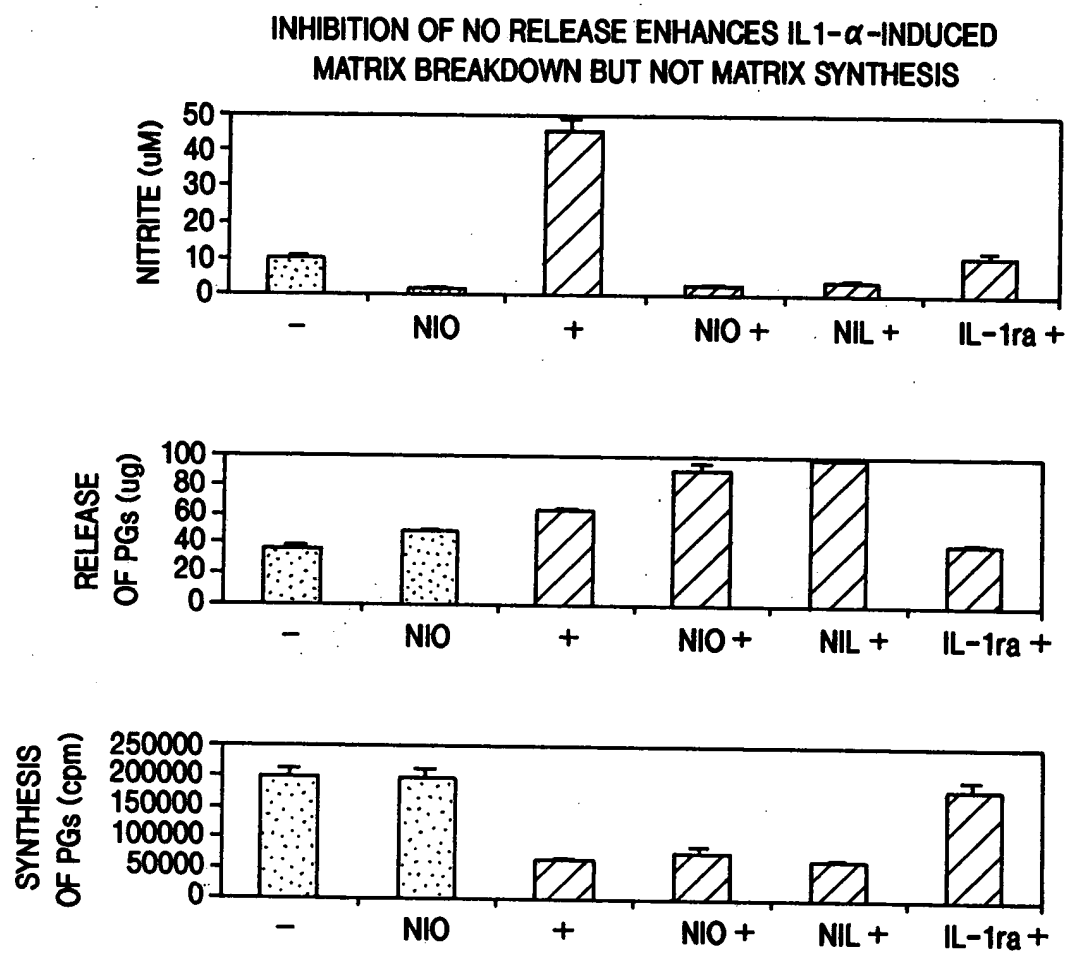


FIG. 15C





**FIG. 16**

IL 17 HOMOLOGUE 1 (UNQ 516) HAS POSITIVE  
EFFECTS ON ARTICULAR CARTILAGE

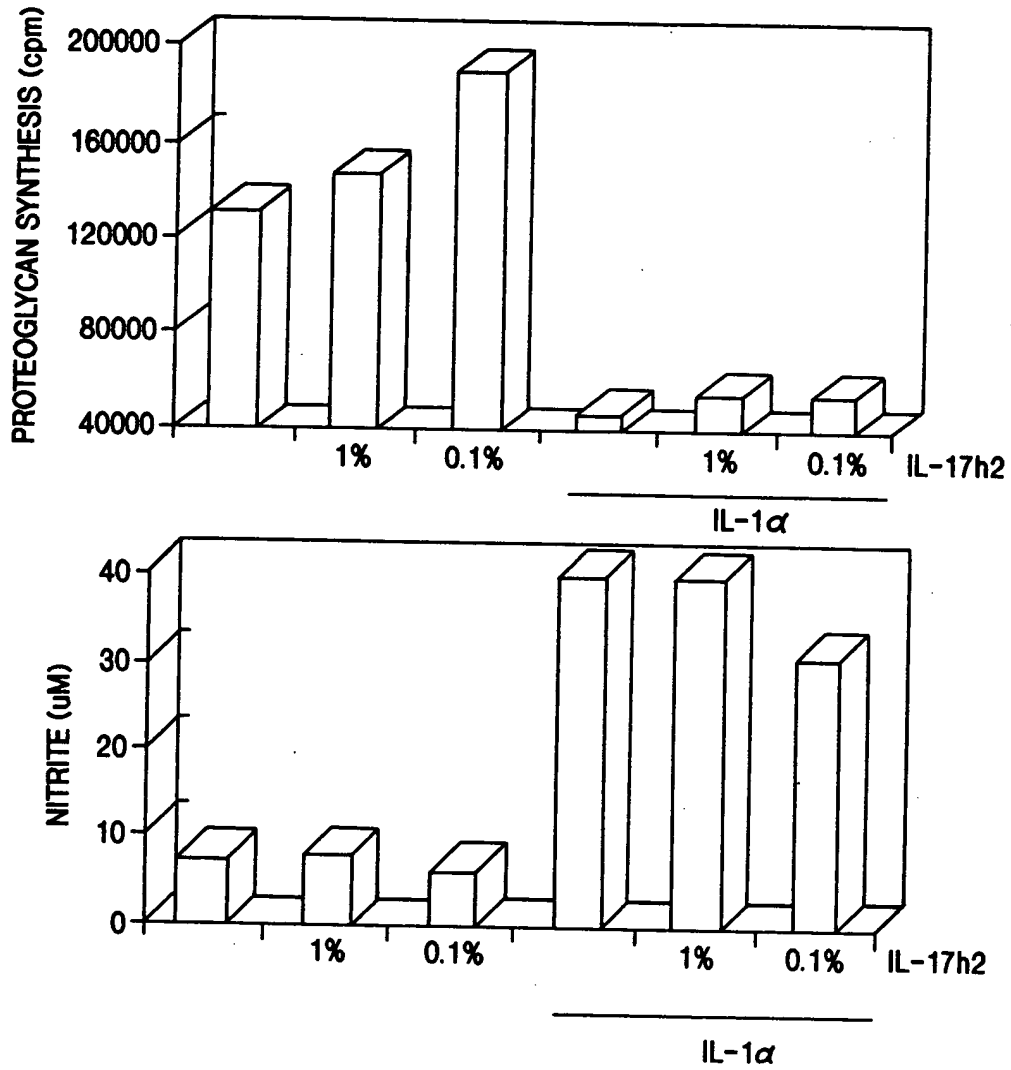


FIG. 17

IL 17 HOMOLOGUE (UNQ 561) HAS DETRIMENTAL  
EFFECTS ON ARTICULAR CARTILAGE

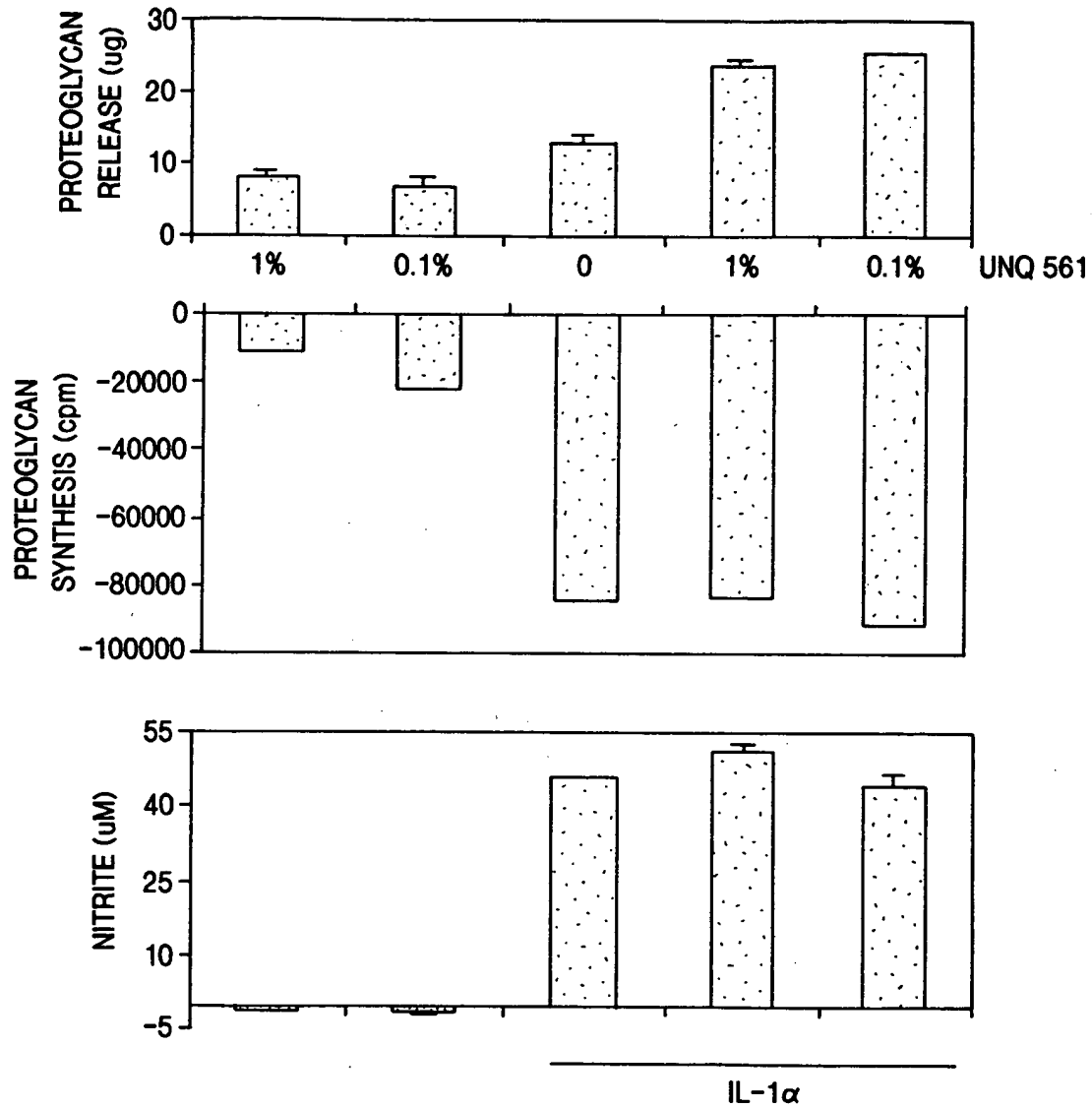


FIG. 18